

File No. Q-11013/3/2015-eGov(Part1)-Part(1)

GOVERNMENT OF INDIA

Ministry of Health & Family Welfare (MoHFW)

DOHFW DEPARTMENT

E-HEALTH

SUBJECT	
Main Category	:
Sub Category	:
Description	: Matters relating setting up of integrated Health Information Platform (Part 2)
OTHER DETAILS	
Retention	:
Priority	:
Language	:
Remarks	:

**Receipt No : 613611/2017/E-GOVERNANCE**Subject: **Constitution order for revision of Technical Evaluation Committee (TEC) for setting-up of Integrated Health Information Platform (IHIP)**

Date: 03/29/17 11:47 AM

From: "Amit Kumar" &lt;amit.k89@gov.in&gt;

To: Shri Sunil Sharma JS <sunil.sharma62@gov.in>,  
Dr Deepak Agarwal <drdeepak@gmail.com>,  
misingla58@hotmail.com, "Dr. Srivastava" <sks@meity.gov.in>,  
MeitY Srivastava <sks@deity.gov.in>, Vinay Thakur <vinay@nic.in>,  
Millind <millind@nic.in>, sinha.sk@nic.in,  
Jitendra Arora <jitendra.arora@gov.in>, sdilipnair@hotmail.com  
Cc: Ashish Sharma <ashish.sharma91@gov.in>,  
US SK Pani <skpani2001@yahoo.com>,  
"Prof. Sarbadhikari" <supten@gmail.com>,  
Supten <supten@nihfw.org>,  
ANKIT TRIPATHI <ankit\_tripathi11@hotmail.com>, director@nihfw.org,  
dd\_a@nihfw.org

IHIP Committee Revised.pdf (472kB)

Respected Sir/ Mam,

Ministry of Health and Family Welfare is in the process of finalizing the Service provider for setting-up of the Integrated Health Information Platform (IHIP) and the RFP has been published. Centre for Health Informatics (CHI) setup by MoHFW has been mandated to administer the development and Implementation of IHIP

A Technical Evaluation Committee (TEC) was constituted vide OM dated 23rd August, 2016 for selection of service provider for "Setting up of Integrated Health Information Platform (IHIP)".

With the approval of the competent authority, constitution of Technical Evaluation Committee (TEC) has been revised. In this regard, please find attached the Constitution order for revision of Technical Evaluation Committee (TEC) for setting-up of Integrated Health Information Platform (IHIP).

Regards

Amit Kumar

Assistant Director (eHealth)

Ministry of Health &amp; Family Welfare

Room No. 213D

Nirman Bhawan

New Delhi – 110 011

Tel: 011 – 2306 2263

Receipt No : 613611/2017/E-GOVERNANCE

File No. Q-11013/3/2015-eGov (Pt-2)  
 Government of India  
 Ministry of Health & Family Welfare  
 (eHealth Section)



Nirman Bhawan, New Delhi  
 Dated the 28<sup>th</sup> March, 2017

**OFFICE ORDER**

**Subject: Revised Constitution of Technical Evaluation Committee (TEC) for setting up of Integrated Health Information Project (IHIP)-reg.**

Ministry of Health and Family Welfare is in the process of finalizing the Service provider for setting-up of the Integrated Health Information Platform (IHIP) and the RFP has been published. Centre for Health Informatics (CHI) setup by MoHFW has been mandated to administer the development and Implementation of IHIP.

2. A Technical Evaluation Committee (TEC) for setting up of Integrated Health Information Project (IHIP) was constituted vide this Department's OM No. Q-11013/4/2016-eGov dated 23<sup>rd</sup> August, 2016.

3. The undersigned is directed to convey approval of the competent authority for constitution of a **revised** Technical Evaluation Committee (TEC), to complete the process of selection of an agency for setting up of the IHIP, under the Chairmanship of Shri Sunil Sharma, Joint Secretary (eHealth), MoHFW with the following composition:

1.	Shri Sunil Sharma, Joint Secretary, MoH&FW	<b>Chairperson</b>
2.	Dr. Deepak Aggarwal, Professor, Neurosurgery & Gamma-Knife, Chairman, Computerization & IT , AIIMS	Member
3.	Dr. M L Singla, Head, Department of Business Management & Industrial Administration (ICT Experts)	Member
4.	Shri Vinay Thakur, Director, NeGD, MeitY	Member
5.	Shri S K Srivastava, Sr Director. MeitY	Member
6.	Mr Milind Kulkarni, Scientist-G, Big Data Initiatives Division, DST (Big Data Analytics expert)	Member
7.	Shri Dileep Nair, Chief Consultant, eHealth, Kerala	Member
8.	Shri S.K. Sinha, STD, NIC, MoHFW	Member
9.	Special Invitees of specific sector (2 No)	Member
10.	Shri Jitendra Arora, Director(eHealth), MoHFW	Member Convener

4. The Terms of Reference (ToR) of the committee are as given below:

- i. Technical review of the eligibility of participating agencies and short listing of eligible agencies against RFP.
- ii. Participate in the meeting to review the presentation made by the agencies before TEC.
- iii. Evaluation of the bids/proposals received in line with the approved technical evaluation criteria.

5. TA/DA to the Official/non-officials members of the TEC will be governed as per the norms laid down by Government of India, from the budget sanctioned to CHI, NIHFW under Grant-in-Aid for setting up of IHIP.



(S. K. Pani)

Under Secretary to the Government of India  
 Ph: 23061213

To

The Chairman and all Members of the Technical Evaluation Committee.

Copy to:

1. Prof J. K. Das, Director, NIHFW
2. DD (Admin), NIHFW
3. Prof S. N. Sarbadhikari, Project Director, CHI, NIHFW



Receipt No : 613611/2017/E-GOVERNANCE

File No. Q-11013/3/2015-eGov(Pt-2)  
Government of India  
Ministry of Health & Family Welfare  
(eHealth Section)

Nirman Bhawan, New Delhi  
Dated the March, 2017

**OFFICE ORDER**

**Subject: Constitution of Technical Evaluation Committee (TEC) for setting up of Integrated Health Information Project (IHIP)-reg.**

2 - With the approval of the competent authority a Technical Evaluation Committee (TEC) to complete the process of selection of an agency for setting up of Integrated Health Information Project (IHIP) has been constituted under the Chairmanship of Shri Sunil Sharma, Joint Secretary (eHealth), MoHFW. The composition of TEC is as follows:

1.	Shri Sunil Sharma, Joint Secretary, MoH&FW	<b>Chairperson</b>
2.	Dr. Deepak Aggarwal, Professor, Neurosurgery & Gamma-Knife, Chairman, Computerization & IT , AIIMS	Member
3.	Dr. M L Singla, Head, Department of Business Management & Industrial Administration (ICT Experts)	Member
4.	Shri Vinay Thakur, Director, NeGD, MeitY	Member
5.	Shri S K Srivastava, Sr Director. MeitY	Member
6.	Mr Milind Kulkarni, Scientist-G, Big Data Initiatives Division, DST (Big Data Analytics expert)	Member
7.	Shri Dileep Nair, Chief Consultant, eHealth, Kerala	Member
8.	Shri S.K. Sinha, STD, NIC, MoHFW	Member
9.	Special Invitees of specific sector (2 No)	Member
10.	Shri Jitendra Arora, Director(eHealth), MoHFW	Member Convener

2. Terms of reference for the Technical Bid Evaluation Committee are given below:

- I. Technical examination and finalization of RFP document.
- II. Laying down criteria for the technical evaluation of bids.
- III. Evaluate the Technical Bids submitted by PSU. *or evel*
- IV. Technical review of the eligibility of the PSU and shortlist of eligible PSU as per the criteria laid down in RFP.

(S. K. Pani)

Under Secretary to the Government of India  
Phn: 23061213

To

All the Technical Evaluation Committee Members

Copy to:

1. Prof J K Das, Director, NIHFW
2. Prof S N Sarbadhikari, Project Director, CHI of NHP, NIHFW
3. Shri Ankit Tripathi, Additional Director, CHI of NHP, NIHFW
4. PPS to JS (SS), MoHFW.

Receipt No : 613611/2017/E-GOVERNANCE

File No. Q-11013/4/2016-eGov

Government of India / भारत सरकार

D/o Health and Family Welfare/ स्वास्थ्य एवं परिवार कल्याण विभाग

e-Governance Section / (ई गवर्नेंस अनुभाग)

\*\*\*\*\*

निर्माण भवन, नई दिल्ली  
दिनांक: 23 अगस्त, 2016Office Memorandum

**Subject: Constitution of Technical Evaluation Committee (TEC) for setting-up of Integrated Health Information Platform (IHIP).**

Ministry of Health and Family Welfare has proposed to set-up the Integrated Health Information Platform (IHIP) and selection of the service provider for Health IT solutions by publishing the Request for Expression of Interest (REOI) document. Centre for Health Informatics (CHI) setup by MoHFW has been mandated to administer the development and implementation of IHIP.

2. The undersigned is directed to convey the approval of competent authority to the setting up of Technical Evaluation Committee for setting up of IHIP. The finding and the recommendation of the TEC will help in effective steering, reviewing and implementation of Integrated Health Information Platform (IHIP). The composition and terms of reference of the Technical Evaluation Committee (TEC) are as under:

Composition of the Technical Evaluation Committee (TEC) on setting up of IHIP

1.	Sh. Sunil Sharma, JS(eGov), MoHFW	<b>Chairman</b>
2.	Dr. Deepak Agarwal, Additional Professor (Neurosurgery) Chairman Computerization, AIIMS	Member
3.	Dr. C. Jayan, Joint Director, e-Health, Kerala	Member
4.	Sh. Vinay Thakur, Director, NeGD, DeitY	Member
5.	An Expert on Big Data Analytics	Member
6.	An ICT expert from IIT/NIT/regional engineering institutes/ Management institutes of prominence.	Member
7.	Shri Gaur Sunder, PTO, C-DAC, Pune	Member
8.	Prof. S N Sarbadhikari, Project Director, CHI, NIHFW	Member
9.	Shri S.K. Sinha, STD, NIC, MoHFW	Member
10.	Shri Ankit Tripathi, Additional Director, CHI, NIHFW	Member
11.	Shri Jitendra Arora, Director (e-Gov), MoHFW	<b>Member Convener</b>



3. Terms of Reference of the Technical Evaluation Committee (TEC)

- 1) ~~Review, evaluate and finalize the RFP and RFP documents.~~
  - 2) Technical review of the eligibility of participating agencies and short listing of eligible agencies to whom RFP document would be issued.
  - 3) Participate in the pre-bid meeting and clarify queries and observations of the agencies.
  - 4) Laying down criteria for technical evaluation of the bids/proposals (in line with the Detail Project Report (DPR) of Health MMP approved by MoHFW).
  - 5) Evaluation of the bids/proposals received in line with the technical evaluation criteria approved.
- TA/DA to the non-officials members will be governed as per the norms laid down by Government of India.

Technical Evaluation Committee  
जितेंद्र बरोडा  
(जितेंद्र बरोडा)  
निदेशक (ई गवर्नेंस)  
स्वास्थ्य एवं परिवार कल्याण मंत्रालय  
फोन : 23062317

To:

The Chairman and all members of TEC

Copy to:

1. PS to Secretary (HFW), MoHFW
2. PS to AS (KBA), MoHFW

to review the  
presentation made  
by the Agencies

Receipt No : 613611/2017/E-GOVERNANCE

File No. Q-11013/3/2015-eGov(Pt-2)  
Government of India  
Ministry of Health & Family Welfare  
(eHealth Section)



Nirman Bhawan, New Delhi  
Dated the March, 2017

**OFFICE ORDER**

**Subject: Constitution of Technical Evaluation Committee (TEC) for setting-up of Integrated Health Information Project (IHIP)-reg.**

With the approval of the competent authority a Technical Evaluation Committee (TEC) to complete the process of selection of an agency for setting up of Integrated Health Information Project (IHIP) has been constituted under the Chairmanship of Shri Sunil Sharma, Joint Secretary (eHealth), MoHFW. The composition of TEC is as follows:

1.	Shri Sunil Sharma, Joint Secretary, MoH&FW	Chairperson
2.	Dr. Deepak Aggarwal, Professor, Neurosurgery & Gamma-Knife, Chairman, Computerization & IT, AIIMS	Member
3.	Dr. M L Singla, Head, Department of Business Management & Industrial Administration (ICT Experts)	Member
4.	Shri Vinay Thakur, Director, NeGD, MeitY	Member
5.	Shri S K Srivastava, Sr Director, MeitY	Member
6.	Mr Milind Kulkarni, Scientist-G, Big Data Initiatives Division, DST (Big Data Analytics expert)	Member
7.	Shri Dileep Nair, Chief Consultant, eHealth, Kerala	Member
8.	Shri S.K. Sinha, STD, NIC, MoHFW	Member
9.	Special Invitees of specific sector (2 No)	Member
10.	Shri Jitendra Arora, Director(eHealth), MoHFW	Member Convener

2. ~~The venue, date and time for the meeting of the TEC will be communicated shortly.~~

*To R*

(S. K. Pani)

Under Secretary to the Government of India  
*Tel 23061213*

To

All the Technical Evaluation Committee Members

Copy to:

1. *Director, NIHF*

1. Prof S N Sarbadhikari, Project Director, CHI of NHP, NIHF
2. Shri Ankit Tripathi, Additional Director, CHI of NHP, NIHF
3. PPS to JS (SS), MoHFW.

Receipt No : 613611/2017/E-GOVERNANCE

Sunil Sharma, IRPS

Joint Secretary

O/c



सत्यमेव जयते

भारत सरकार

स्वास्थ्य एवं परिवार कल्याण मंत्रालय

निर्माण भवन, नई दिल्ली - 110108

Government of India

Ministry of Health &amp; Family Welfare

Nirman Bhavan, New Delhi - 110108

Tel. : +91-11-23061773

Fax : 91-11-23062157

E-mail : sunil.sharma62@gov.in

D. O. No. Q-11013/3/2015-eGov (Pt2)

Dated: 18<sup>th</sup> January 2017

Dear Dr Kumar,

MoHFW prepared Health MMP Plan to establish a pan-India Integrated Health Information System under Digital India & eKranti (NeGP2.0). The key pillars of the envisaged system include Online Medical Records & Health Information Exchange. The Plan was reviewed by the Apex Committee of eHealth under the co-chairmanship of Secretary (HFW) and Secretary (MeitY) and it was decided to take up the implementation of the scheme in a phased manner (copy of Minutes of Meeting are enclosed).

2. In Phase-I of MMP, an 'Integrated Health Information Platform (IHIP)' has been envisaged to be established to facilitate creation & exchange of electronic medical/health records, interoperability amongst Health IT Systems, data analytics for effective programme management/policy making etc.

3. The Request for Proposal (RFP) for selection of reputed agency for Design, Development and Implementation of Integrated Health Information Platform has been published and the selection of agency will be finalized by the end of February 2017. The MoHFW intends to implement first phase of Health Information Exchange (HIE), Electronic Health Records (EHR) system under IHIP by June 2017.

4. It is expected that approximately 45,000- 50,000 health service providers would participate in the system and about 40-50 crore citizens would be covered under EHR system in next five years. The tentative requirements of cloud computing infrastructure estimated over a period of five years are given as under:

Year	Hardware Type	Year Wise Requirement
2017 - 18	Total Physical Core	428
2018 - 19	RAM (GB)	3424
	Storage (TB)	150
2019 - 20	Total Physical Core	316
	RAM (GB)	2528
	Storage (TB)	100
2020 - 21	Total Physical Core	428
	RAM (GB)	3424



Receipt No : 613611/2017/E-GOVERNANCE

	Storage (TB)	150
2021 - 22	Total Physical Core	288
	RAM (GB)	2304
	Storage (TB)	100

5. It is requested that NIC may kindly arrange necessary computing infrastructure with requisite features such as virtualization, cloud computing for IHIP on Govt Cloud, so as to facilitate smooth and timely implementation of IHIP Project.

With regards,

Yours sincerely,

  
(Sunil Sharma)

✓ Dr. Ajay Kumar,  
Additional Secretary,  
Ministry of Electronics & Information Technology,  
Delhi.

FTS: 3060542

**Copy to:**

✓ Ms. Neeta Verma,  
Director General,  
National Informatics Centre (NIC)  
CGO Complex, New Delhi

FTS: 3060545

Pls. Issue R2 I  
by speed post  
Chauhan  
23-2-17





Amit Kumar &lt;amitkumariss34@gmail.com&gt;

**DO letter dtd 18th Jan, 2017 regarding arrangement of compute infrastructure with virtualisation and cloud feature for IHIP**

1 message

**JITENDRA ARORA DIRECTOR** <jitendra.arora@gov.in>

Wed, Jan 18, 2017 at 5:17 PM

To: ajay@meity.gov.in

Cc: Director General NIC &lt;dg@nic.in&gt;, Sunil JS &lt;sunil.sharma62@gov.in&gt;, ANKIT TRIPATHI &lt;ankit\_tripathi11@hotmail.com&gt;, Amit Kumar &lt;amitkumariss34@gmail.com&gt;

Dear Sir,

As you may be aware that MoHFW prepared Health MMP Plan to establish a pan-India Integrated Health Information System under Digital India & eKranti (NeGP2.0). The key pillars of the envisaged system include Online Medical Records & Health Information Exchange. The Plan was reviewed by the Apex Committee of eHealth under the co-chairmanship of Secretary (HFW) and Secretary (MeitY) and it was decided to take up the implementation of the scheme in a phased manner (copy of Minutes of Meeting are enclosed).

2. In Phase-I of MMP, an 'Integrated Health Information Platform (IHIP)' has been envisaged to be established to facilitate creation & exchange of electronic medical/health records, interoperability amongst Health IT Systems, data analytics for effective programme management/policy making etc.

3. The Request for Proposal (RFP) for selection of reputed agency for Design, Development and Implementation of Integrated Health Information Platform has been published and the selection of agency will be finalized by the end of February 2017. The MoHFW intends to implement first phase of Health Information Exchange (HIE), Electronic Health Records (EHR) system under IHIP by June 2017. It is expected that approximately 45,000- 50,000 health service providers would participate in the system and about 40-50 crore citizens would be covered under EHR system in next five years

4. It is requested that NIC may kindly arrange necessary computing infrastructure with requisite features such as virtualisation, cloud computing for IHIP on Govt Cloud, so as to facilitate smooth and timely implementation of IHIP Project.

***A signed copy of DO letter in this regard is attached.***

--

Regards

Jitendra Arora  
Director(eHealth)  
Ministry of Health and Family Welfare  
Nirman Bhawan (Room 307D)  
New Delhi - 110108.  
+91-11-23062317 (Telefax),  
+91-9868453680(Mobile)

**2 attachments** **MOM\_Steering Committee Meeting on 27.07.15 final.pdf**  
90K **Do letter dtd 18.01.17 reg cloud infrastructure.pdf**  
205K

18

**Sunil Sharma, IRPS**  
Joint Secretary



भारत सरकार  
स्वास्थ्य एवं परिवार कल्याण मंत्रालय  
निर्माण भवन, नई दिल्ली - 110108  
Government of India  
Ministry of Health & Family Welfare  
Nirman Bhavan, New Delhi - 110108  
Tel. : +91-11-23061773  
Fax : 91-11-23062157  
E-mail : sunil.sharma62@gov.in

D. O. No. Q-11013/3/2015-eGov (Pt2)

Dated: 18<sup>th</sup> January 2017

Dear Dr. Kumar,

MoHFW prepared Health MMP Plan to establish a pan-India Integrated Health Information System under Digital India & eKranti (NeGP2.0). The key pillars of the envisaged system include Online Medical Records & Health Information Exchange. The Plan was reviewed by the Apex Committee of eHealth under the co-chairmanship of Secretary (HFW) and Secretary (MeitY) and it was decided to take up the implementation of the scheme in a phased manner (copy of Minutes of Meeting are enclosed).

2. In Phase-I of MMP, an 'Integrated Health Information Platform (IHIP)' has been envisaged to be established to facilitate creation & exchange of electronic medical/health records, interoperability amongst Health IT Systems, data analytics for effective programme management/policy making etc.

3. The Request for Proposal (RFP) for selection of reputed agency for Design, Development and Implementation of Integrated Health Information Platform has been published and the selection of agency will be finalized by the end of February 2017. The MoHFW intends to implement first phase of Health Information Exchange (HIE), Electronic Health Records (EHR) system under IHIP by June 2017.

4. It is expected that approximately 45,000- 50,000 health service providers would participate in the system and about 40-50 crore citizens would be covered under EHR system in next five years. The tentative requirements of cloud computing infrastructure estimated over a period of five years are given as under:

Year	Hardware Type	Year Wise Requirement
2017 - 18	Total Physical Core	428
2018 - 19	RAM (GB)	3424
	Storage (TB)	150
2019 - 20	Total Physical Core	316
	RAM (GB)	2528
	Storage (TB)	100
2020 - 21	Total Physical Core	428
	RAM (GB)	3424

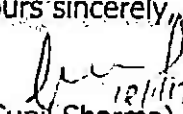


**National Health Mission**

	Storage (TB)	.150
2021 - 22	Total Physical Core	.288
	RAM (GB)	.2304
	Storage (TB)	.100

5. It is requested that NIC may kindly arrange necessary computing infrastructure with requisite features such as virtualization, cloud computing for IHIP on Govt Cloud, so as to facilitate smooth and timely implementation of IHIP Project.

With regards,

Yours sincerely,  
  
(Sunil Sharma)  
12/11/17

*Dr. Ajay Kumar,  
Additional Secretary,  
Ministry of Electronics & Information Technology,  
Delhi.*

**Copy to:**

Ms. Neeta Verma,  
Director General,  
National Informatics Centre (NIC)  
CGO Complex, New Delhi



**Department of Health & Family Welfare  
e-Governance Division**

\*\*\*\*\*

**Subject: Minutes of the Steering Committee Meeting on E-Health held on 27<sup>th</sup> July, 2015 to review progress of Health Mission Mode Project, discuss the comments/suggestions on EFC Memorandum & way forward**

A meeting of the Steering Committee on E-Health was held on 27<sup>th</sup> July 2015 to discuss the comments/ suggestions received from NITI AYOḠ, D/o Expenditure and D/o E & IT on the Health MMP EFC Memorandum. The meeting was chaired by Shri B.P. Sharma, Secretary (HFW). The list of participants is placed at **Annexure - A**.

2. Secretary(HFW) welcomed the participants and requested Shri N. B. Dhal, JS(eGov), DoHFW to apprise the members and participants regarding progress on Health MMP and other strategic initiatives.

3. JS(eGov) made a brief presentation on the MMP's salient features, summary of the comments/suggestions received on the EFC Memorandum and progress on setting up of NeHA & proposed legislation on health data privacy & security. A copy of the presentation is placed at **Annexure -B**.

4. JS(eGov) informed that Health MMP is fully aligned with the principles of 'E-Kranti (NeGP 2.0)' under Digital India programme and would work towards achieving the Hon'ble PM's vision of providing a wide set of services (covering public health, services at hospitals, drugs supply chain, GRP and Citizen portal) and developing electronic health records of citizens across all public hospitals in states initially and nationwide progressively. The architectural components, like HIEs and EHR repositories in states, provide for integration of data and EHRs from private



hospitals as well. It was also informed that only Telemedicine has been kept outside the scope of the DPR. The strategic implementation-framework envisaged covered standards, modular implementation approach, progressive use of UID (Aadhar), federated architecture, use of GoI Cloud/National Information Infrastructure, mobile & other upcoming technologies etc. Further, the key features of the planned Integrated Healthcare IT platform (to be hosted on the cloud) – its purpose, architecture, inter-operability, scalability, use by both public & private sectors (on user charges basis for private sector) etc. - were highlighted. He mentioned that the costing in the DPR covers public sector facilities and users only, based on normative parameters & detailed workings in line with the pan-India number of health facilities/hospitals. He also mentioned that in order to ensure efficiency of operations, need for a 'special purpose vehicle' to provide implementation support was strongly felt and had been proposed in the EFC. Nasscom-NatHealth Joint Council (NNJC) has also suggested similar SPV structure (for central healthcare IT platform), though shareholding & management structure details are yet to be furnished.

5. JS(eGov) further mentioned that the Health MMP had been broadly supported by DeitY, Niti Ayog and Department of Expenditure; however both D/o Expenditure & NITI AYOOG have suggested that the MMP should be aligned with the existing CSS of health and funding should be tied-up may be under NHM. He also briefed that in the EFC Memorandum, exploring option of loan under IDA, World Bank had been mentioned, however no formal discussion in this regard had been held so far.



6. Thereafter, Secretary(HFW) talked about the presentation on NHM made to Hon'ble PM on 09.06.15, wherein the vision & goals of Health MMP were also briefly mentioned and the need for an initiative like this was appreciated. However, the funding of the MMP needs to be tied-up. As of now, the MMP's implementation has been planned in two phases- three states in phase 1 & remaining in phase 2- so that the funding requirement is manageable and also before pan-India implementation, results are demonstrated in pilot states. He mentioned that the need for integrated healthcare IT platform, facilitating inter-operability & data exchange, had been strongly felt by different quarters including private sector. NNJC's proposal is based on the similar lines and also highlights the criticality of private sector participation in some manner. Secretary(HFW) then requested the participants to share their views and suggestions on roll-out of MMP's in an effective and manageable way.

7. Shri Tapan Ray, Additional Secretary (DeitY) stated that the Health MMP was very much needed and detailed planning had already been done. The MMP is aligned with E-Kranti principles and now MoHFW should go ahead with the roll-out of Health MMP, in a suitably phased / modular manner. He mentioned that development of a common integrated healthcare IT platform, which is scalable, interoperable & compliant to standards, could be starting point for the roll-out.

8. Regarding observation by DeitY on SNOMED CT not being an open standard, it was clarified that MoHFW had taken a decision to adopt SNOMED-CT as one of the notified EHR Standards based on the technical merits of using the same and with concurrence of DeitY and CDAC. After

India became member of IHTSDO (the agency managing SNOMED-CT development, distribution and support worldwide) in 2014, it has been decided that all users, including private healthcare providers, can use SNOMED CT free in India.

9. Shri Arunish Chawla, JS(PF-II), D/o Expenditure stated that D/o Expenditure was fully supportive of the Health MMP; however no new CSS (other than those included in the list of 66 CSSs) may be introduced and no new body may be set up. He suggested that the funding for the MMP could be sought under the Digital India program since E-Kranti- one of the pillars of Digital India- focuses on eHealth services covered by the MMP. He also mentioned that MoHFW should emphasise upon adoption of standards/Metadata, integrated MIS etc. and must move ahead with creating an integrated Health IT Platform, which could be leveraged by public health sector and later on, private health sector could also be brought on-board.

10. Regarding setting up of National eHealth Services Corporation for Health MMP implementation, JS(eGov), DoHFW clarified that need for such a body was strongly felt for handholding & implementation support to states and had been proposed to be set up with shareholding from both public (centre and states in equal measure) & private in mix of 49% & 51% respectively. Goods & Services Tax Network (GSTN), set up on similar lines, is already functioning well.

11. Thereafter, Secretary(HFW) stated that for effective and efficient implementation of the planned project activities, setting up of a dedicated

(9)

structure/body (may be with participation from private sector) was required.

12. Dr. Jagdish Prasad, DGHS suggested that Health MMP should be implemented in a phased manner. MoHFW might examine the possibility of implementing one pillar (like Public Health System) pan-India, out of the five pillars/areas identified under the MMP.

13. Shri Sanjiv Mital, CEO, NISG mentioned that it would be useful to develop the integrated health IT platform and have it rolled out in a state by hosting on cloud. This would then help demonstrate the working the platform in field operating conditions and it's ease of use; then it would become easier for other states to adopt the platform in a shorter time-frame.

14. Shri Manoj Jhalani, JS (Policy), DoHFW agreed with the idea of creating an integrated health IT platform and suggested that some budgetary support could be provided under NHM for roll out of the mission mode project like for hardware, training, capacity building etc. in facilities of States/UTs.

15. Shri C. K. Mishra, AS&MD(NHM), DoHFW mentioned that extending funding support under NHM for roll out of Health MMP may not be feasible.

16. JS (eGov) also apprised the participants about the status of setting up of NeHA. He stated that various comments/suggestions on NeHA Concept Note had been received and were being examined. Most of the suggestions mentioned about the need for NeHA to be set up as a statutory body. He further mentioned that a national level consultation was proposed

to deliberate on the comments/suggestions and refine the concept note so that it can be used as the basis for drafting the legislation to set up NeHA as a statutory body. He also stated that pursuant to the recommendation of the legal sub-group under EMR/EHR standards committee under chairmanship of AS&DG(CGHS), DoHFW had decided to prepare a draft legislation for health data privacy & security and had accordingly sought involvement of an institution of repute in drafting the legislation. Four institutes namely IIT, Kharagpur; NALSAR, Hyderabad; NLSUI, Bangalore & ILS, New Delhi have been contacted for EoI. The envisaged legislation would entail setting up of NeHA as enforcing body for the Act.

17. Based on the detailed discussions, the following decisions were taken by the Steering Committee:

- a) Development of an integrated health IT platform (supporting the envisaged architecture, having scalable properties and supporting compliance with IT and EMR/EHR standards of DeitY and MoHFW respectively and thus enabling interoperability) may be taken-up first, paving the way for phased implementation of the MMP. In this regard, a note with the budgetary outlay may be prepared for approval.
- b) States may be encouraged to allocate enough funds from their healthcare budget for adoption and roll-out of Health MMP in their respective states, leveraging the integrated health IT platform.
- c) Discussions with World Bank may be taken up to explore the option of funding for implementing health MMP in 3-4 pilot states.
- d) National consultation may be held to deliberate upon the comments / suggestions received on the Concept Note for setting up of NeHA.



(7)

- e) Considering the need of privacy and security of the health data, MoHFW may continue with the task of drafting a legislation for Health Data Privacy & Security which may also entail provision for setting up NeHA.

The meeting concluded with a vote of thanks to the chair & the participants.

Annexure-A

1. Dr. Jagdish Prasad- DGHS, MoHFW
2. Sh. Vikas Garg- Spl. Secretary (Health & Family Welfare) Chandigarh, Punjab
3. Sh. Tapan Ray- AS, DeitY
4. Sh. N.S. Kang- AS & DG, CGHS, MoHFW
5. Sh. C.K. Mishra- AS & MD, MoHFW
6. Dr. Arun K Panda- AS(H), MoHFW
7. Sh. Arunish Chawla- JS(Expenditure), Ministry of Finance
8. Sh. Manoj Jhalani- JS (Policy), MoHFW
9. Dr. Rakesh Kumar- JS(RCH), MoHFW
10. Sh. N.B. Dhal- JS, MoHFW
11. Sh. Sunil Sharma- JS, MoHFW
12. Dr. N.K. Dhamija- Dy. Commissioner(Training and Telemedicine) MoHFW
13. Dr. S.K. Thirunavukarasu- Deputy Director, TNHSP HMIS, Govt of Tamil Nadu
14. Sh. Sunil Kumar- Senior Technical Director (NIC), MoHFW
15. Sh. Sanjeev Mital- CEO, NISG
16. Sh. Sudhir Saxena- VP, NISG
17. Sh. S. Rama Krishnan- Adviser, NISG
18. Sh. Praveen Srivastava- JD, CDAC
19. Sh. Chandrasen- PL, ePMU, MoHFW
20. Sh. Bhanu Prakash- Consultant, ePMU, MoHFW
21. Sh. Nikhil, Functional-Consultant ePMU, MoHFW



Government of India  
Department of Health & Family Welfare  
eHealth Section

\*\*\*\*\*

**Minutes of the Workshop to Discuss and Outline Elements and Format for Data to  
Capture and Collected by Integrated Health Information Platform (IHIP)  
(28th November, 2016, Nirman Bhawan, New Delhi)**

A workshop was held under the chairpersonship Dr. B.D. Athani, Spl. DG, DGHS MoHFW to discuss and outline elements and format for data to be capture and collected by Integrated Health Information Platform (IHIP).

2. Shri Sunil Sharma, JS (eHealth), MoHFW welcomed the participants and briefed them regarding the envisaged objectives of and outputs expected from the workshop. He also briefly explained the key benefits of the IHIP. List of the participants is provided at Annexure-1.

3. Dr. B.D. Athani emphasized upon why interoperability and integration of different health IT Systems is required for clinical information, population health information as well as administrative information. He suggested that exchange of information is required at multiple levels such as - individual patient, hospital, administrative, state and national level for continuity of care and for public health decision making.

4. This was followed by a brief presentation on the IHIP covering various aspects such as objectives of the IHIP, functional scope, components, benefits, architecture, methods of data exchange, EHR development and implementation, scope, information to be captured in EHR, integration of public health information systems with IHIP, Minimum Data Set of the EHR standards 2013.

5. Thereafter, detailed discussion and deliberation was held and the following suggestions were made by the participants and based on those decisions were taken:

**1. Minimum Data Set (MDS):**

- a. MoHFW may come up with the Essential Data Set (EDS) and all fields mentioned in the EHR Standard (2013) MDS list may not be required in the EDS. The other data elements which are important can be placed under as 'nice to have' list along with the MDS.
- b. It was also suggested that mandatory EDS should not become a reason for refusal of services but should be used proactively for getting minimal essential information into the system which could be used for data exchange.

c. For creation of MDS following suggestions were made-

- i. Discharge summaries of the patient may be used as minimum data set where limited but important data elements in the discharge summary could be identified and used.
- ii. Following data elements were suggested under MDS- Patient Name, Father Name, Mother Name, DoB, Gender, Clinical Diagnosis, Prescription Parameters, Confirmed Diagnosis, Symptoms, Medication, Investigation, Tobacco and Alcohol abuse etc.
- iii. To start with only IPD data could be entered into the EHR. However, provisions would use to be made for entering OPD data as well into EHR.
- iv. OPD slip data elements may be used as minimum dataset for Outpatient visits.
- v. SNOMED CT should be used for entering patient symptoms
- vi. Laboratory & pharmacy departments may enter the lab test & medicine data directly into the EHR.
- vii. It was decided that IHIP will have the full fledged basic EHR from day one. During implementation IPD data entry would be prioritized and outpatient clinical records would be taken up later for entry into the system.

d. It was also discussed as to whether provisional diagnosis to be entered into EHR or confirmed diagnosis only. To this Dr. Athani responded that to start with, provisional diagnosis could be entered which can be later confirmed by the service provider when the test records are available. Suggestions also came regarding documentation of Tobacco and Alcohol abuse history of the patient which was supported by the participants.

**2. Use of Aadhar as Unique Health Identifier:**

- a. It was suggested that the Aadhar number should be used in priority for the identification of the patient; in addition, provision for the use of additional IDs should be there till use of Aadhar becomes a norm.
- b. JS (eGov) suggested that call centre initiatives of different programs should be used proactively to obtain/verify the Aadhar number of the patient and entered into the HIS/EHR systems.
- c. It was decided that TB Division and Leprosy Division should share within a week, write-up on their IT Systems and use of Aadhar in respective systems.

(3)

**3. Integration of Public Health Information Systems with IHIP:**

- a. It was suggested that provisions should be made for sharing of clinical records between EHR systems and public health information systems such as Nikshay, MCTS etc. where clinical information is recorded.
- b. EHR/HIS system should be user friendly to operate and it should also be capable of aggregating community centric electronic health records.

**4. Capacity Building interventions:**

- a. It was suggested that a robust capacity building and change management program is to be created for the nurses, doctors and pharmacist and other paramedics of the hospital for using EHR systems.
- b. There may be pre-Induction training (of adequate duration) for all categories of the doctors and paramedics for usage of EHR system.

**5. National Drug Database:**

- a. It came out during the discussion that e-pharmacy and e-prescription would require to go hand in hand with EHR.
- b. For drug database, any of the well developed drug databases in private domain may be explored and evaluated for use in public domain.

**6. Patient to add/edit their data-** It was suggested that patient should be given flexibility to add/modify their own data into their records. It was considered that there would be editable and non-editable records of the patient, where editable records could be entered/edited by the patients- using this he can enter his own routine vital data such as Blood Pressure, Weight, Blood Sugar etc. Non-editable data would be entered by doctor/ medical service provider only and standard protocols would be required to put in place for its addition/ change. It was also suggested that patient could be given the flexibility for creating their personal health records which they can use to document their own details.

**7. Participation of the private sector-** Chairperson, Dr. Athani informed that, in phase-1 the private sector will be sensitized for digital management of patient records and would be motivated for sharing of clinical information in the later stages of the implementation. However the consultation with larger groups would be required in this regard. JS (eGov) suggested that the private sector may be brought onboard by three major ways:

- a. All hospitals/service providers participating in the NHPS must mandatorily follow the EHR standards and share data into the Minimum data set with other providers through IHIP.
- b. IRDA has been requested to get UID and patient level clinical data for all reimbursement purposes.



- c. Facilities registered under Clinical Establishment Act may be required to provide data on the minimum data set and participate in the information sharing.
8. The committee has decided that in IHIP, Pull and Push mechanism will be used for data exchange.
9. It was decided to constitute a committee having composition as follows for detailed working on and finalisation of data elements and formats for IHIP, keeping in view the suggestions made during the workshop :

1.	Dr. Deepak Agarwal, Head Computerization, AIIMS	Chair
2.	Dr. S.K. Srivastava, Sr. Director, MeitY	Member
3.	Dr. Deepak Bhattacharya, Pulmonary & Respiratory Medicine, Safdarjung Hospital	Member
4.	DDG, TB Division, MoHFW	Member
5.	Dr. S.N Deshpande, RML Hospital	Member
6.	Shri Parveen Srivastava, Joint Director, C-DAC, Noida	Member
7.	Shri Gaur Sundar, INRC SNOMED CT, CDAC Pune	Member
8.	IT Department Incharge, PGI, Chandigarh	Member
9.	Dr. S. B. Bhattacharya, TCS	Member
10.	Dr. Arvind Sivaramakrishnan, Apollo hospital	Member
11.	Dr Ashok Mittal, Practitioner Clinician	Special Invitee
12.	Shri Ankit Tripathi	Convenor

The Committee is mandated to submit in three weeks' time the draft report on data elements and formats to be captured and stored in form of central repository at IHIP in line with the objectives set out for establishment of IHIP.

10. Meeting ended with the vote of thanks to the chair.



## Annexure- 1 List of Participants

S.No.	Name	Designation
1	Dr B.D. Athani	Spl. DG, MoHFW
2	Shri Sunil Sharma	Joint Secretary, e-GoV, MoHFW
3	Shri Praveen Srivastava	Joint Director, CDAC Noida
4	Shri R.C. Rawat	Social Scientist, NHM Rajasthan
5	Dr. SK Srivastava	Sr. Director, MeitY
6	Dr. SN Deshpande	HoD, Psychiatry, OIC, MRD, RML
7	Dr. Ajay Rampal	Sr. Tech Director, NIC, New Delhi
8	Dr. Deepak Agarwal	Chairman, Computerization, AIIMS
7	Ms. Metilda Robin	Head, Nursing Informatics, AIIMS
8	Shri Tarun Kumar Goel	Technical Director, NIC, HQ, New Delhi
9	Shri Ankit Tripathi	Additional Director, CHI
10	Shri Surinder Singh	MRO, MRD, RML

Government of India  
Ministry of Health & Family Welfare  
(eHealth Section)

\*\*\*\*

**Subject: Minutes of the Workshop to Discuss and Outline Elements and Format for Data to Capture and Collected by Integrated Health Information Platform (IHIP) on 28<sup>th</sup> November, 2016 at Nirman Bhawan, New Delhi**

A workshop was held under the chairpersonship Dr. B.D. Athani, Spl. DG, DGHS MoHFW to discuss and outline elements and format for data to be capture and collected by Integrated Health Information Platform (IHIP) on 28th November, 2016 at Nirman Bhawan, New Delhi.

2. After detailed deliberation in the workshop, it was decided to constitute a committee for detailed working on and finalisation of data elements and formats for IHIP keeping in view the suggestions made during the workshop. The composition of the said committee is as follows:

1.	Dr. Deepak Agarwal, Head Computerization, AIIMS	Chair
2.	Dr. S.K. Srivastava, Sr. Director, MeitY	Member
3.	Dr. Deepak Bhattacharya, Pulmonary & Respiratory Medicine, Safdarjung Hospital	Member
4.	DDG, TB Division, MoHFW	Member
5.	Dr. S.N Deshpande, RML Hospital	Member
6.	Shri Parveen Srivastava, Joint Director, C-DAC, Noida	Member
7.	Shri Gaur Sundar, iNRC SNOMED CT, CDAC Pune	Member
8.	IT Department Incharge, PGI, Chandigarh	Member
9.	Dr. S. B. Bhattacharya, TCS	Member
10.	Dr. Arvind Sivaramakrishnan, Apollo hospital	Member
11.	Dr Ashok Mittal, Practitioner Clinician	Special Invitee
12.	Shri Ankit Tripathi	Convenor

3. The Committee is mandated to submit in three weeks' time the draft report on data elements and formats to be captured and stored in form of central repository at IHIP in line with the objectives set out for establishment of IHIP.

4. The draft minutes of the workshop are placed below for approval please.

JS(eHealth)

Spl. DG, DGHS

(Jitendra Arora)  
Director(eHealth)

JS C eHealth

JS (eHealth)

JS(eHealth)

ADe-Gov

Q-11013/3/2015-eGov(Pt1)

FTS:

Government of India  
Ministry of Health and Family Welfare  
(eHealth Section)

\*\*\*\*\*

**Subject: Arrangement of compute infrastructure with virtualization and cloud feature for IHIP.**

Ministry of Health and Family Welfare (MoHFW) has undertaken various initiatives toward digitalization of the Health Sector for improving the efficiency and effectiveness Healthcare system in the country for the benefit of citizen.

2. To enhance digitalization process of the Health Sector, the MoHFW has already initiated the process for implementation of Integrated Health Information Platform (IHIP). The Request for Proposal (RFP) for selection of reputed agency for Design, Development and Implementation of Integrated Health Information Platform has been issued and the selection of agency will be finalized by the end of February 2017.

3. In this regard, we may request NIC to kindly provide/arrange necessary compute infrastructure with virtualization and cloud feature for IHIP.

4. In this context, a draft DO letter is placed below for your kind approval please. (F/A)

  
(Jitendra Arora)  
Director(eHealth)

JS/ehost

  
10/1/17

Dr (eGov)

Fair copy placed on file  
& emailed to you for  
taking sign of JS.

PS to JS (ehow)

Fair letter is placed  
below for sign of.


JS(ss)

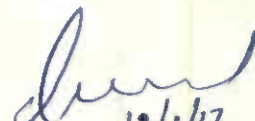
NCS/ps  
11/1/2017

Pl review the draft as discussed.

Dr (eGov)

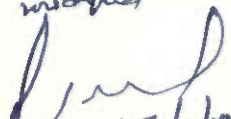
PLH

  
13/1/17

  
12/1/17

As discussed the revised DFA is placed  
for approval for.  
As instructed

JS/ehost

  
17/1/17

Dr (eGov)

Ag (ehow)

If the letter is issued  
or not Pl inform me  
on phone



Government of India  
Ministry of Health and Family Welfare  
e-Health Section

\*\*\*\*

**Subject: Constitution of Technical Evaluation Committee (TEC) for setting-up of Integrated Health Information Platform (IHIP).**

This is in reference to the setting-up of the Integrated Health Information Platform (IHIP) and selection of the service provider for Health IT solutions.

2. Centre for Health Informatics (CHI) setup by MoHFW has been mandated to administer the development and implementation of IHIP through an IT services provider. The RFP has already been published for selection of service provider for "Setting up of Integrated Health Information Platform (IHIP)" on 3<sup>rd</sup> January, 2017.

3. To complete the process of selection of an agency, it is proposed that a Technical Evaluation Committee (TEC) may be constituted at CHI, NIHFW. In this regard, Composition of the Technical Evaluation Committee (TEC) may be proposed as below:

1	Sh. Sunil Sharma, JS(eGov), MoHFW	<b>Chairman</b>
2	Dr. Deepak Agarwal, Additional Professor (Neurosurgery) Chairman Computerization, AIIMS	Member
3	Dr. M.L Singla, Head, Department of Business Management & Industrial Administration (ICT Expert).	Member
4	Sh. Vinay Thakur, Director, NeGD, MeitY	Member
5	Sh. S.K Srivastava, Sr. Director, MeitY	Member
6	Mr. Milind Kulkarni, Scientist-G, Big Data Initiatives Division, DST( Big Data Analytics expert)	Member
7	Sh. Dileep Nair, Chief Consultant, eHealth, Kerala	Member
8	Shri S.K. Sinha, STD, NIC, MoHFW	Member
9	Special Invitees of specific sector (2 No)	Member
10	Shri Jitendra Arora, Director (e-Gov), MoHFW	<b>Member Convener</b>

4. The profile of TEC expert at Sr. No. ~~36~~7 invited from other department is placed at F/A

5. File is submitted for approval of Secretary (HFW) for the constitution of aforementioned committees.

*J Arora*  
22/3/17  
(Jitendra Arora)  
Director (eHealth)

*J S/etov*

*AS(RKV)*

*B(eGov)*

*B(eGov)*

*B(eGov)*

*U/S(eGov)*

*AD(eGov)*

*22/3/17*

*24/3/17*

*24/3/17*

*J Arora*  
27/3/17

*29/3/2017*



